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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/059,235	01/31/2002	Kiyoshi Nakade	2002_0087A	6549

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WASHINGTON, DC 20006-1021

EXAMINER

MUROMOTO JR, ROBERT H

ART UNIT	PAPER NUMBER
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3765

DATE MAILED: 03/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/059,235

Applicant(s)

NAKADE, KIYOSHI.

Examiner

Robert H Muromoto, Jr.

Art Unit

3765

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 January 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 8, 9 and 16-22 is/are rejected.
- 7) ☒ Claim(s) 4-7 and 10-15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 8, 9, and 16-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lambert et al.

In the instant application, applicant discloses "A conventional slasher is provided with a moistening device for moistening warp yarns before sizing the warp yarns. Moistening the warp yarns before sizing increases the effect of sizing subsequent to moistening and hence the necessary amount of size can be reduced. The moistening device immerses warp yarns in water contained in a water tank and squeezes the warp yarns with squeeze rollers...". So the recited limitations of claim 1 are all known as conventional elements as recited by the applicant except for the recited moistening unit of the instant invention using a sprinkling or spray system rather than a water tank.

However, Lambert et al. teaches a low wet pickup fabric finishing apparatus. Lambert uses an atomized spray system to produce a low wet pickup, uniformly finished fabric. Lambert uses two spray nozzles on opposing sides of the fabric to produce a

uniform spray pattern. The resultant fabric has a uniform finish and is produced with lower energy costs not seen in previous methods for wet finishing fabric.

As fabrics are a conglomeration of yarns, it is considered by the examiner that wet finishing of fabrics is well within the same problem solving area as wetting of warp yarns.

Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to use a spray system to achieve a uniform wet pickup on yarns and fabrics.

As for the recitation that "hot water" is sprinkled on the warp yarns, it is well known that textile processing such as slashing and sizing is performed at relatively high temperatures so it would have been obvious to one of ordinary skill in the art to use hot water as the moistening solution for a slashing process.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lambert in view of Himes '773.

Although Lambert teaches essentially all of the limitations of the instant invention, Lambert does not teach spraying the fabric from above the fabric.

However, Himes does teach a fluid delivery apparatus, "With reference to FIG. 3, it will be seen that the upper dispenser 17 is disposed above the lower dispenser 18 for conveyance of articles 11 therebetween in a longitudinal, generally horizontal path of travel, as shown (col. 4, lines 32-36)." Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to provide spray from above the fabric since fabric is conveyed in a longitudinal, horizontal path of travel.

Allowable Subject Matter

Claims 4-7 and 10-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: claims 4-7 and 10-15 would be allowable because these claims require an otherwise conventional slasher machine to include a nozzle spray system with specific construction orientations, adjustability, and movability.

Response to Arguments

Applicant's arguments filed 1/15/04 have been fully considered but they are not persuasive. Applicant argues that Lambert teaches away from utilizing a spraying or sprinkling device in a moistening unit. This is clearly not correct. As stated by applicant in remarks dated 1/15/2004, "Lambert discloses a finishing apparatus for applying an atomized ***spray solution to a fabric...***" This clearly states Lambert teaching "spraying". Furthermore, Lambert uses a chamber fitted with two spray nozzles, clearly spray nozzles teach "spraying".

Additionally, applicant has argued that the technical problems addressed are different from the instant invention and Lambert. This argument is also clearly in error. Applicant states the problem solved in the instant invention is to ensure proper wet pickup, while the Lambert reference aims to provide a solution to fabric in a uniform manner. Wet pickup is the amount of solution absorbed by a fabric. Clearly these are both in the same technical field.

Finally, applicant has argued that the motivation to combine is absent because the moistening unit of a conventional slasher is not a finishing apparatus. Once again applicant's arguments are clearly in error. Sizing, slashing, dyeing, tentering, among other processes are all finishing processes. Any steps in any of the above processes are therefore steps involved in a finishing process. Consequently, any devices which provide functions in the finishing process can and should be considered finishing devices or apparatuses.

Since these are the only arguments presented by the applicant, the previous rejection stands and is considered proper.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert H Muromoto, Jr. whose telephone number is 703-306-5503. The examiner can normally be reached on 8-530, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Calvert can be reached on 703-305-1025. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0861.

Bhm
March 17, 2004


JOHN J. CALVERT
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700